	Application No.	Applicant(s)
Notice of Allowability	10/603,009 Examiner	BAZIN ET AL. Art Unit
•	LXammer	Artonic
	Nhon T. Diep	2621
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subject	application. If not included on will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed 6/2</u>	<u>1/2007</u> .	
2. X The allowed claim(s) is/are 1, 5-10, 15-20, which were ren	umbered as 1-13, respectively.	
3. Acknowledgment is made of a claim for foreign priority up	nder 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:	3 (, (,)	
1. Certified copies of the priority documents have	e been received.	
2. Certified copies of the priority documents have	e been received in Application No.	·
Copies of the certified copies of the priority do	cuments have been received in thi	is national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a rep IENT of this application.	ly complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINE es reason(s) why the oath or decla	R'S AMENDMENT or NOTICE OF tration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) 🔲 including changes required by the Notice of Draftspers		O-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the draw the header according to 37 CFR 1.12	wings in the front (not the back) of 1(d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGI	. must be submitted. Note the CAL MATERIAL.
Attachment(s)	5 Matica of Informal	Data at Analisation
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. Notice of Informal	• •
	6.	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amen	dment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Staten	ment of Reasons for Allowance
of Biological Material	9.	
		DMMhm
		NHON DIEP PRIMARY EXAMINER

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The present application relates to processing digital video generally and, more particularly, to a real time scene change detection in video sequences. The prior art of record does not anticipate or render obviousness an apparatus configured to process a digital video signal comprising: an input circuit configured to present a digital video signal comprising a plurality of frames; a processing circuit configured to detect scene changes in said digital video signal by analyzing (i) a current one of said plurality of frames and (ii) two or more other frames; and an encoder circuit configured to generate an encoded signal in response to said digital video signal and said scene changes, wherein (a) said two or more other frames comprise (i) a first window of frames that are processed before said current frame and (ii) a second window of frames that are processed after said current frame and (b) (i) said first window comprises a first fixed number of frames that are processed before said current frame, (ii) said second window comprises a second fixed number of frames that are processed after said current frame and (iii) said processing circuit detects said scene changes by analyzing changes between said first window and said second window as specified in claim 1 and a method for processing video, comprising the steps of: (A) receiving a video signal comprising a plurality of frames, wherein said video signal is generated in response to (i) 5 a stored signal, (ii) a captured signal, or (iii) a decoded signal; (B) (a) generating one or more transition signals in response to (i) a current one of said frames, (ii) one or more frames that are processed before said current frame and (iii) one or more frames that are processed after said

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current frame, (b) generating field measures in response to said plurality of frames and (c) calculating a second order derivative of a first transition from a first scene to a second scene; (C) generating an encoded signal in response to (i) said video signal and (ii) said transition signals; and (D) recording said encoded signal as specified in claim 10.

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- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon T. Diep whose telephone number is 571-272-7328. The examiner can normally be reached on m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR: Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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7/22/2007

NHON DIEP PRIMARY EXAMINER

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